

Application Serial No. 08/070.455
Attorney's Docket No. 003300-293

E1 from the group consisting of SEQ ID. No. 1, SEQ ID No. 3, and fragments encoding the amino acid sequences of SEQ ID No. 6-17, together with a promoter selected from the group consisting of CaMV 35S, patatin I and the GBSS promoter.

E2 4. (Thrice Amended) Fragment of the potato gene coding for granule-bound starch synthase (GBSS), wherein said fragment is [encoding an amino acid sequence] selected from the group consisting of SEQ ID. No. 1, SEQ ID No. 3, and fragments encoding the amino acid sequences of SEQ ID No. 6-17.

6. ~~(Thrice Amended) Isolated potato gene coding for granule-bound starch synthase in potato (GBSS gene)[, wherein said synthase has an amino acid sequence selected from the group consisting of SEQ ID No. 18, SEQ ID NO. 19, and SEQ ID No.-20] having the nucleotide sequence stated in SEQ ID No. 5.~~

E3 7. (Thrice Amended) Antisense construct for inhibiting expression of the gene for granule-bound starch synthase in potato, comprising

- a) a promoter,
- b) a fragment of the potato gene coding for granule-bound starch synthase inserted in the antisense direction, wherein said fragment [encoding an amino acid sequence] is selected from the group consisting of SEQ ID No. 1, SEQ ID No. 3, and fragments encoding the amino acid sequences of SEQ ID No. 6-17.